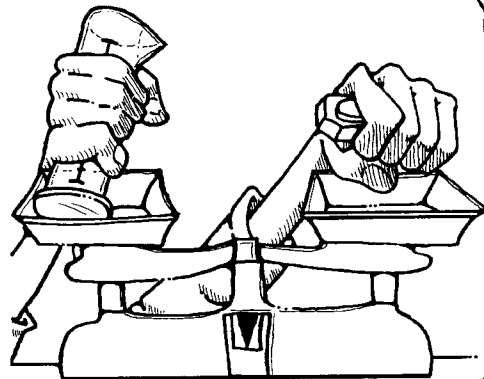


# What-*a*r **DENSITIES?**

## Connecting Learning

1. How is density figured?
2. What are the units used for density in this investigation?
3. Can you write an equation for this graph? What is the slope of this line? Can you predict what the mass of 300mL of water would be?
4. The standard density of water is  $1 \text{ g/cm}^3$ . Was yours the same? If not, why do you think it wasn't?
5. What are you wondering now?

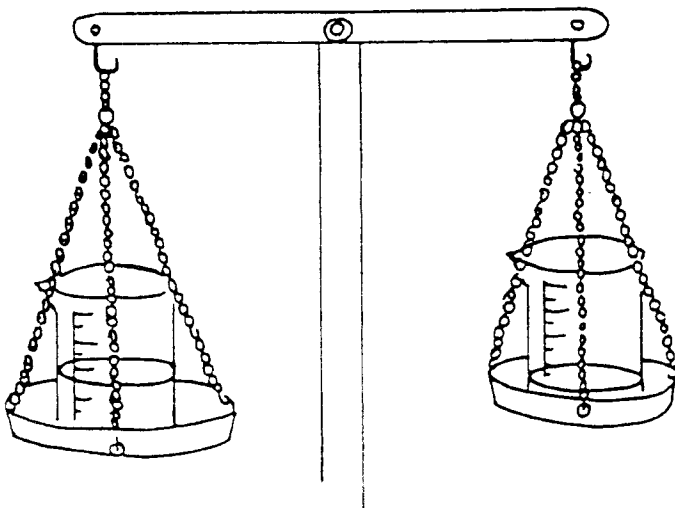


# What are Deposits?

1. Mass your graduated cylinder empty and record on the chart below.
2. Measure 50ml of water into your graduated cylinder.
3. Mass the graduated cylinder with your water in it and record This data.
4. Subtract the two masses to find the mass of your water.  
Record this under the heading "mass of water."
5. Divide the mass of the water by the volume of the water to find your density and round off to the nearest hundredth.
6. Repeat using the indicated volumes of water.
7. Find the average of your densities.

The Standard Density of Water At Room Temperature Is      G/CM<sup>3</sup> (or      g/ml). How Close Did You Come?

Volume	Mass Empty	Mass Filled	Mass of Water	Density of Water
50 ml				
100 ml				
150 ml				
200 ml				
250 ml				
Average Density =				



5.